

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/938,829	09/938,829 08/27/2001		Naoki Ayai	040256-0123	1089
22428	7590	01/16/2003			
FOLEY AN	D LARI	DNER	EXAMINER		
SUITE 500 3000 K STRI			DINH, TUAN T		
WASHINGTON, DC 20007				ART UNIT	PAPER NUMBER
				2827	
				DATE MAILED: 01/16/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
•	09/938,829	AYAI, NAOKI					
· Office Action Summary	Examiner	Art Unit					
	Tuan T Dinh	2827					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply A SHORTENED STATISTORY REPLODED FOR REDLY IS SET TO EXPIRE 2 MONTH(S) FROM							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1) Responsive to communication(s) filed on 06	<u> 6 November 2002</u> .						
2a)⊠ This action is FINAL . 2b)□	This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1 and 3-10</u> is/are pending in the application.							
4a) Of the above claim(s) <u>9</u> is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1,3-8 and 10</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on <u>27 August 2001</u> is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a)⊠ All b)☐ Some * c)☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)					

A THE REPORT OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PERSONAL PROPERTY OF THE PROPERTY OF THE

Art Unit: 2827

DETAILED ACTION

Claim 9 does not read in figures 21-25, because the limitation of "silver based sheath 44 is read on figure 19; therefore, claim 9 is withdrawn from further consideration as being drawn to non-elected subject matter.

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the cross-hatching of ceramic layer and metal sheath in figures 21-25 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 3-8, and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Cotton et al. (U. S. Patent 5,908812).

Regarding claims 1, 8, and 10, Cotton discloses an oxide superconducting wire as shown in figures 1-3 comprising:

Art Unit: 2827

oxide superconductors being divided into a plurality of filaments (10, column 4, line 33);

a ceramic layer (20, column 4, line 34) enclosing and being in contact each of said oxide superconductors, said ceramic layer (20) becoming non-conducting (column 4, lines 57-65) at operational temperature of said oxide superconductors (10), and; a metal sheath (30, column 4, line 34) directly coating said ceramic layer (20).

Regarding claim 3, Cotton discloses the oxide semiconducting wire as shown in figures 1-3 wherein said oxide superconductors (filaments 10) are configured to spirally extend around the central axis of said oxide superconducting wire.

Regarding claim 4, Cotton discloses the oxide semiconducting wire as shown in figures 1-3 wherein said **ceramic layer contains an oxide** including at least one kind selected from the group consisting of bismuth, lead, strontium, calcium, barium, titanium, niobium, molybdenum, tantalum, tungsten, vanadium, zirconium, copper and silver (column 4, lines 57-65, column 5, lines 28-41, column 8, lines 12-14, column 9, lines 5-19).

Regarding claim 5, Cotton discloses the oxide semiconducting wire as shown in figures 1-3 wherein said oxide superconductors are bismuth-based superconductors (column 5, lines 41-67).

Regarding claim 6, Cotton discloses the oxide semiconducting wire as shown in figures 1-10 wherein said ceramic layers contains an oxide including an alkali earth metal and copper (column 9, lines 5-19).

Art Unit: 2827

Regarding claim 7, Cotton discloses the oxide semiconducting wire as shown in figures 1-3 wherein said metal sheath include at least one kind selected from the group consisting of silver, copper, manganese, magnesium, antimony, iron, chromium, and nickel (column 4, lines 55-56).

Response to Arguments

1. Applicant's arguments with respect to claims 1, 3-8, and 10 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Art Unit: 2827

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Whitlow et al., Nabatame et al., and Duperray et al. disclose related art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 703-306-5856. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-1341 for regular communications and 703-305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TD January 07, 2002.

DAVID L. TALBOTT SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800